

DERWENT-ACC-NO: 1998-079611

DERWENT-WEEK: 199808

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TITLE: New aryl-glyoxal acetal(s) and
hemi-acetal(s) - e.g.

2-hydroxy-5-(2-(di:alkoxy)-ethanoyl)-benzoic acid
derivatives

PATENT-ASSIGNEE: SCHERING-PLOUGH CORP[SCHE]

PRIORITY-DATA: 1995IL-0115678 (October 19, 1995)

PATENT-FAMILY:

PUB-NO	PAGES	MAIN-IPC	PUB-DATE	LANGUAGE
IL 115678 A	000	C07C 065/32	January 4, 1998	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
IL 115678A	N/A	1995IL-0115678
October 19, 1995		

INT-CL (IPC): C07C065/32, C07C069/84 , C07C235/84 ,
C07D317/26 ,
C07D319/06

ABSTRACTED-PUB-NO: IL 115678A

BASIC-ABSTRACT:

Acetals and hemi-acetals of the formula (I) are new. Z =
NH₂, OH or OR₆; R₆ =
H or 1-10C alkyl; R₇, R₈ = H, alkyl (optionally substituted),
cycloalkyl,
cycloalkylalkyl, hydroxyalkyl, aryl (optionally substituted),
arylalkyl
(optionally substituted), heterocyclyl or heterocyclylalkyl;
provided that R₇
and R₈ are not both H; or R₇+R₈ form a five or six membered

ring with the
oxygen atoms.

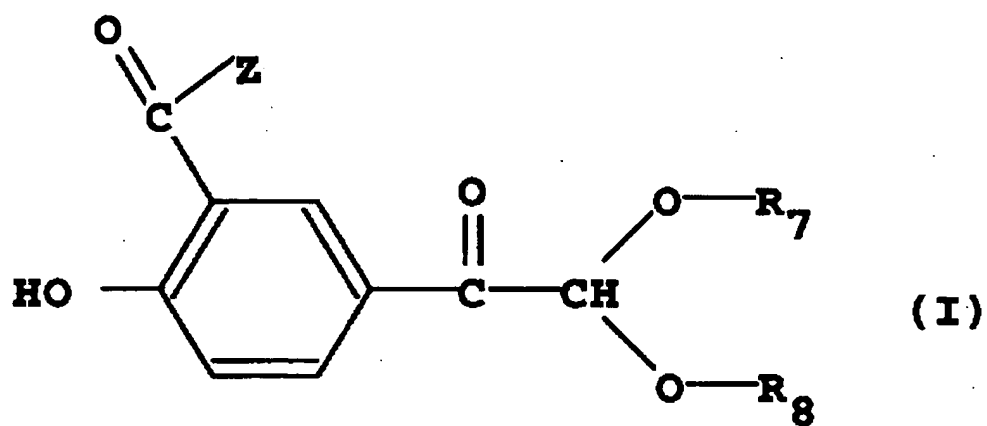
TITLE-TERMS: NEW ARYL GLYOXAL ACETAL HEMI ACETAL HYDROXY DI
ALKOXY BENZOIC ACID
DERIVATIVE

DERWENT-CLASS: B03 B05 E13 E14

CPI-CODES: B06-H; B07-H; B10-A23; E07-H; E10-A23A;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1998-026559



Welcome to STN International! Enter x:x

LOGINID:sssptau126mls

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *
* *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Jun 03	New e-mail delivery for search results now available
NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAPIO has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEX enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 20	EVENTLINE will be removed from STN
NEWS	28	Mar 24	PATDPAFULL now available on STN
NEWS	29	Mar 24	Additional information for trade-named substances without

structures available in REGISTRY

NEWS 30 Apr 11 Display formats in DGENE enhanced

NEWS 31 Apr 14 MEDLINE Reload

NEWS 32 Apr 17 Polymer searching in REGISTRY enhanced

NEWS 33 Apr 21 Indexing from 1947 to 1956 being added to records
in CA/CAPLUS

NEWS 34 Apr 21 New current-awareness alert (SDI) frequency in
WPIDS/WPINDEX/WPIX

NEWS 35 Apr 28 RDISCLOSURE now available on STN

NEWS 36 May 05 Pharmacokinetic information and systematic chemical
names
added to PHAR

NEWS 37 May 15 MEDLINE file segment of TOXCENTER reloaded

NEWS 38 May 15 Supporter information for ENCOMPPAT and ENCOMPLIT
updated

NEWS 39 May 16 CHEMREACT will be removed from STN

NEWS 40 May 19 Simultaneous left and right truncation added to WSCA

NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous
left and
right truncation

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:15:14 ON 29 MAY 2003

=> FILE REG

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:15:25 ON 29 MAY 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 28 MAY 2003 HIGHEST RN 521913-14-4
DICTIONARY FILE UPDATES: 28 MAY 2003 HIGHEST RN 521913-14-4

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading 778353a.str

L1 STRUCTURE UPLOADED

=>

Uploading 778353.str

L2 STRUCTURE UPLOADED

=> UERY

UERY IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> QUERY

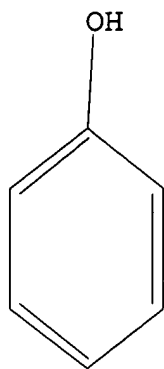
ENTER LOGIC EXPRESSION OR (END):L1 AND L2

L3 QUE L1 AND L2

=> D L3

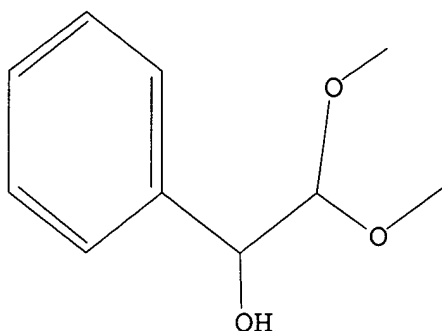
L3 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

L2 STR



Structure attributes must be viewed using STN Express query preparation.

L3 QUE L1 AND L2

=> SEARCH

ENTER LOGIC EXPRESSION, QUERY NAME, OR (END):L3

ENTER TYPE OF SEARCH (SSS), CSS, FAMILY, OR EXACT:.

ENTER SCOPE OF SEARCH (SAMPLE), FULL, RANGE, OR SUBSET:.

SAMPLE SEARCH INITIATED 13:16:20 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 8768 TO ITERATE

11.4% PROCESSED 1000 ITERATIONS

0

ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 169752 TO 180968

PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L1 AND L2

=> S L3 SSS FULL

FULL SEARCH INITIATED 13:16:39 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 174749 TO ITERATE

100.0% PROCESSED 174749 ITERATIONS

10

ANSWERS

SEARCH TIME: 00.00.02

L5 10 SEA SSS FUL L1 AND L2

=> D 1-10 SUB BIB

L5 ANSWER 1 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 476333-87-6 REGISTRY

CN Benzenemethanol,

.alpha.-(dimethoxymethyl)-4-hydroxy-2,5-dimethyl- (9CI)

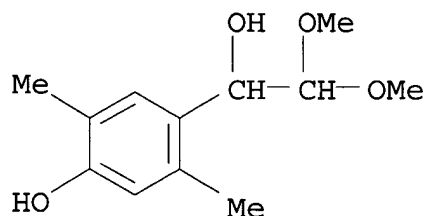
(CA INDEX NAME)

FS 3D CONCORD

MF C12 H18 O4

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 137:384652 CA

TI Preparation of .beta.3-adrenoceptor-stimulating phenoxyacetates
and their
intermediates

IN Tanaka, Nobuyuki; Tamai, Tetsuo; Mukaiyama, Harunobu; Ishikawa,
Takehiro;

Kobayashi, Junichi; Akaba, Satoshi; Harada, Hiroshi

PA Kissei Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2002338513	A2	20021127	JP 2002-64840	20020311
PRAI	JP 2001-68023	20010312			

L5 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 355840-19-6 REGISTRY

CN Benzoic acid, 4-hydroxy-3-(1-hydroxy-2,2-dimethoxyethyl)-, methyl ester

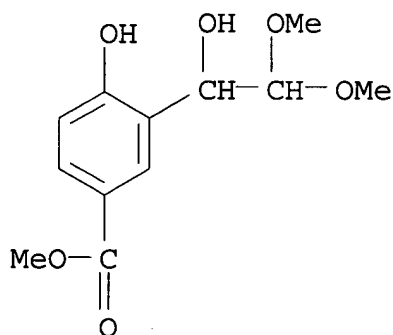
(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C12 H16 O6

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 135:181474 CA

TI Phenolic compounds derived from dialkoxyethanols, their preparation process and their application

IN Wilhelm, Didier; Esmard, Florence

PA Clariant (France) S.A., Fr.

SO Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

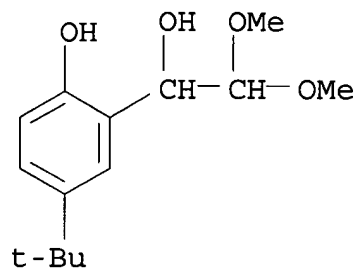
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1125908	A1	20010822	EP 2001-810115	20010206
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	FR 2804679	A1	20010810	FR 2000-1483	20000207
	FR 2804679	B1	20020426		
	CA 2334050	AA	20010807	CA 2001-2334050	20010202
	NO 2001000621	A	20010808	NO 2001-621	20010206
	JP 2001294547	A2	20011023	JP 2001-29469	20010206
	US 2001016664	A1	20010823	US 2001-778353	20010207
	CN 1337387	A	20020227	CN 2001-120719	20010207
PRAI	FR 2000-1483		20000207		
RE.CNT	4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

L5 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2003 ACS
 RN 355840-18-5 REGISTRY
 CN Benzenemethanol,
 .alpha.-(dimethoxymethyl)-5-(1,1-dimethylethyl)-2-hydroxy-
 (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C14 H22 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 135:181474 CA
 TI Phenolic compounds derived from dialkoxyethanols, their
 preparation
 process and their application
 IN Wilhelm, Didier; Esmard, Florence

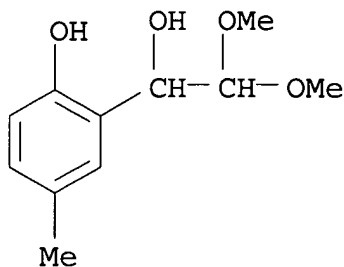
PA Clariant (France) S.A., Fr.
 SO Eur. Pat. Appl., 19 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1125908	A1	20010822	EP 2001-810115	20010206
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
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	FR 2804679	B1	20020426		
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	NO 2001000621	A	20010808	NO 2001-621	20010206
	JP 2001294547	A2	20011023	JP 2001-29469	20010206
	US 2001016664	A1	20010823	US 2001-778353	20010207
	CN 1337387	A	20020227	CN 2001-120719	20010207

PRAI FR 2000-1483 20000207

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2003 ACS
 RN 355840-17-4 REGISTRY
 CN Benzenemethanol, .alpha.-(dimethoxymethyl)-2-hydroxy-5-methyl-
 (9CI) (CA
 INDEX NAME)
 FS 3D CONCORD
 MF C11 H16 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

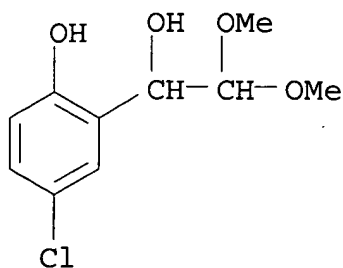
1 REFERENCES IN FILE CA (1957 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 135:181474 CA
 TI Phenolic compounds derived from dialkoxyethanols, their
 preparation
 process and their application
 IN Wilhelm, Didier; Esmard, Florence
 PA Clariant (France) S.A., Fr.
 SO Eur. Pat. Appl., 19 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1125908	A1	20010822	EP 2001-810115	20010206
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	IE, SI, LT, LV, FI, RO				
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	FR 2804679	B1	20020426		
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	NO 2001000621	A	20010808	NO 2001-621	20010206
	JP 2001294547	A2	20011023	JP 2001-29469	20010206
	US 2001016664	A1	20010823	US 2001-778353	20010207
	CN 1337387	A	20020227	CN 2001-120719	20010207
PRAI	FR 2000-1483		20000207		
RE.CNT	4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L5 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2003 ACS
 RN 355840-16-3 REGISTRY
 CN Benzenemethanol, 5-chloro-.alpha.-(dimethoxymethyl)-2-hydroxy-(9CI) (CA
 INDEX NAME)
 FS 3D CONCORD
 MF C10 H13 Cl O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 135:181474 CA
TI Phenolic compounds derived from dialkoxyethanols, their preparation

process and their application
IN Wilhelm, Didier; Esmard, Florence

PA Clariant (France) S.A., Fr.

SO Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1125908	A1	20010822	EP 2001-810115	20010206
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	IE, SI, LT, LV, FI, RO				
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	NO 2001000621	A	20010808	NO 2001-621	20010206
	JP 2001294547	A2	20011023	JP 2001-29469	20010206
	US 2001016664	A1	20010823	US 2001-778353	20010207
	CN 1337387	A	20020227	CN 2001-120719	20010207

PRAI FR 2000-1483 20000207

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 355840-15-2 REGISTRY

CN Benzenemethanol, .alpha.-(dimethoxymethyl)-2-hydroxy- (9CI) (CA INDEX

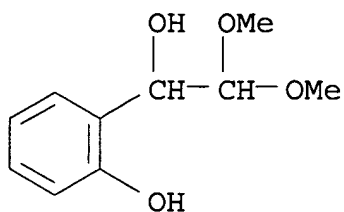
NAME)

FS 3D CONCORD

MF C10 H14 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



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1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

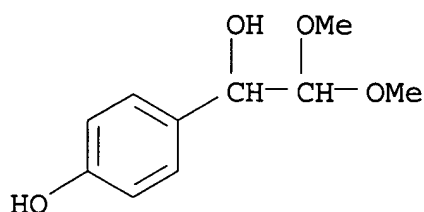
AN 135:181474 CA
TI Phenolic compounds derived from dialkoxyethanols, their
preparation
process and their application
IN Wilhelm, Didier; Esmard, Florence
PA Clariant (France) S.A., Fr.
SO Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	FR 2804679	B1	20020426		
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	NO 2001000621	A	20010808	NO 2001-621	20010206
	JP 2001294547	A2	20011023	JP 2001-29469	20010206
	US 2001016664	A1	20010823	US 2001-778353	20010207
	CN 1337387	A	20020227	CN 2001-120719	20010207
PRAI	FR 2000-1483		20000207		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 355840-14-1 REGISTRY
CN Benzenemethanol, .alpha.-(dimethoxymethyl)-4-hydroxy- (9CI) (CA
INDEX
NAME)
FS 3D CONCORD
MF C10 H14 O4

SR CA
LC STN Files: CA, CAPLUS, USPATFULL



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1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

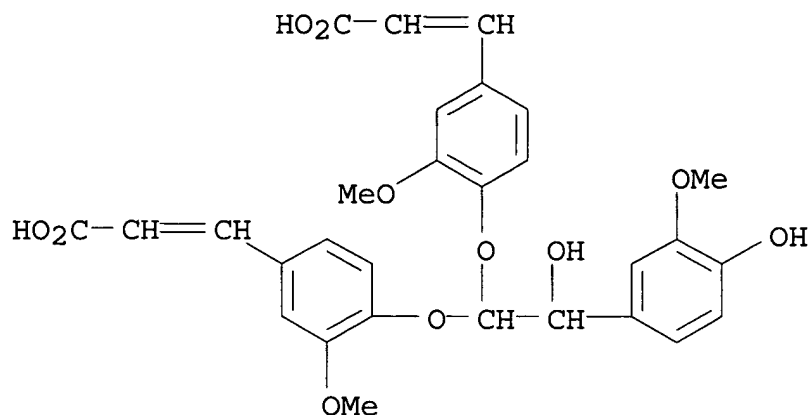
REFERENCE 1

AN 135:181474 CA
TI Phenolic compounds derived from dialkoxyethanols, their
preparation
process and their application
IN Wilhelm, Didier; Esmard, Florence
PA Clariant (France) S.A., Fr.
SO Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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MC, PT,	IE, SI, LT, LV, FI, RO				
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	NO 2001000621	A	20010808	NO 2001-621	20010206
	JP 2001294547	A2	20011023	JP 2001-29469	20010206
	US 2001016664	A1	20010823	US 2001-778353	20010207
	CN 1337387	A	20020227	CN 2001-120719	20010207
PRAI	FR 2000-1483		20000207		
RE.CNT	4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD			
	ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L5 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 353455-92-2 REGISTRY
CN 2-Propenoic acid, 3,3'-[[2-hydroxy-2-(4-hydroxy-3-

methoxyphenyl) ethylidene] bis[oxy(3-methoxy-4,1-phenylene)]] bis-
 (9CI) (CA
 INDEX NAME)
 MF C29 H28 O11
 SR CA
 LC STN Files: CA, CAPLUS



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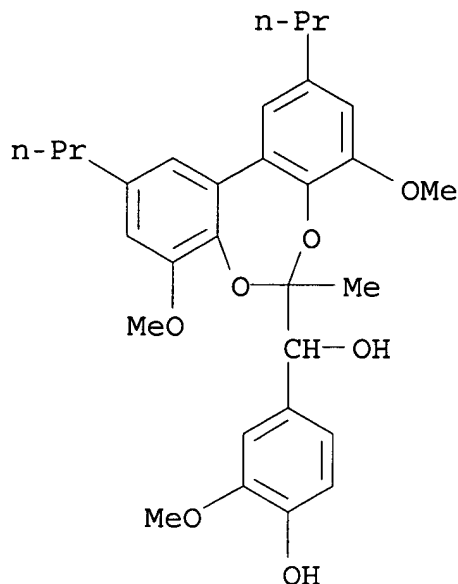
1 REFERENCES IN FILE CA (1957 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 135:163980 CA
 TI Initial steps of ferulic acid polymerization by lignin peroxidase
 AU Ward, Gary; Hadar, Yitzhak; Bilkis, Itzhak; Konstantinovskiy,
 Leonid;
 Dosoretz, Carlos G.
 CS Department of Environmental Biotechnology, MIGAL-Galilee
 Technology
 Center, Kiryat Shmona, 10200, Israel
 SO Journal of Biological Chemistry (2001), 276(22), 18734-18741
 CODEN: JBCHA3; ISSN: 0021-9258
 PB American Society for Biochemistry and Molecular Biology
 DT Journal
 LA English
 RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2003 ACS
 RN 239115-24-3 REGISTRY
 CN Dibenzo[d,f][1,3]dioxepin-6-methanol,
 .alpha.-(4-hydroxy-3-methoxyphenyl)-
 4,8-dimethoxy-6-methyl-2,10-dipropyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD
MF C30 H36 O7
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

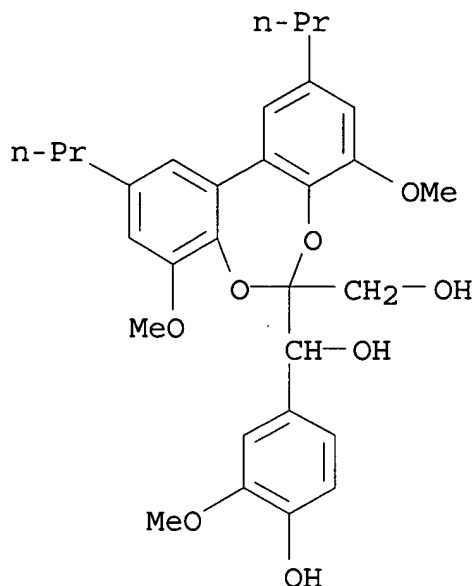
1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 131:171707 CA
TI The behavior of dibenzodioxocin structures in lignin during
alkaline
pulpig processes
AU Karhunen, Pirkko; Mikkola, Jouni; Pajunen, Aarne; Brunow, Gosta
CS Department of Chemistry, University of Helsinki, Finland
SO Nordic Pulp & Paper Research Journal (1999), 14(2), 123-128
CODEN: NPPJEG; ISSN: 0283-2631
PB Mentor Communications AB
DT Journal
LA English
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 215542-00-0 REGISTRY
CN Dibenzo[d,f][1,3]dioxepin-6,6-dimethanol, .alpha.-(4-hydroxy-3-
methoxyphenyl)-4,8-dimethoxy-2,10-dipropyl- (9CI) (CA INDEX
NAME)

FS 3D CONCORD
 MF C30 H36 O8
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1

AN 131:171707 CA
 TI The behavior of dibenzodioxocin structures in lignin during
 alkaline
 pulping processes
 AU Karhunen, Pirkko; Mikkola, Jouni; Pajunen, Aarne; Brunow, Gosta
 CS Department of Chemistry, University of Helsinki, Finland
 SO Nordic Pulp & Paper Research Journal (1999), 14(2), 123-128
 CODEN: NPPJEG; ISSN: 0283-2631
 PB Mentor Communications AB
 DT Journal
 LA English
 RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE 2

AN 129:344592 CA
 TI Novel redox reactions of dibenzodioxocin structures in lignin
 during